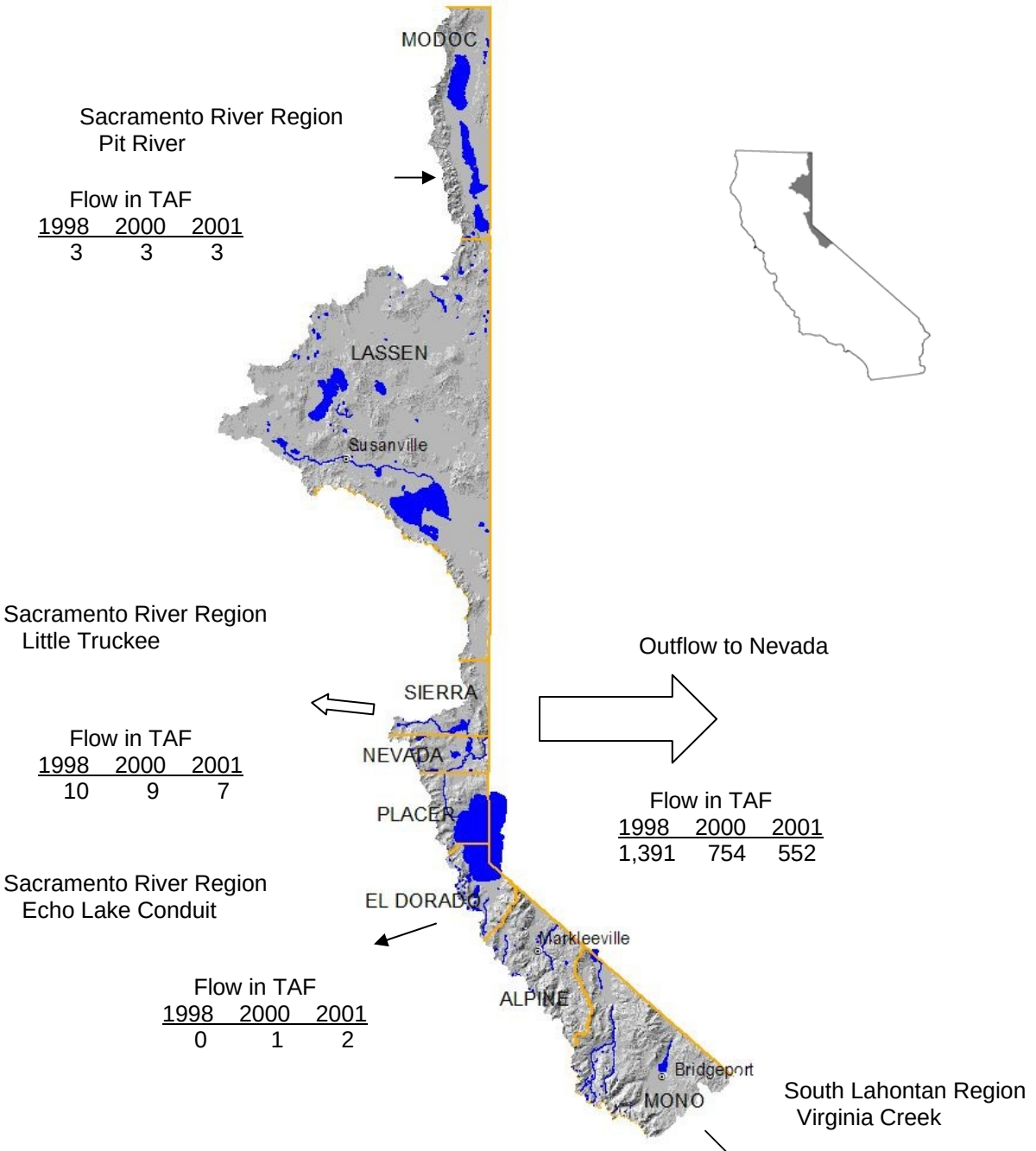
NORTH LAHONTAN HYDROLOGIC REGION

Revised September 6, 2005



Some Statistics

- Area - 6,122 square miles (3.9% of State)
- Average annual precipitation – 23.1 inches
- Year 2000 population - 99,035
- 2030 population projection – 130,800
- Total reservoir storage capacity - 1,181 TAF
- 2000 irrigated crop area - 125,200 acres

NORTH LAHONTAN HYDROLOGIC REGION
WATER BALANCE SUMMARY - TAF

	Water Year (Percent of Normal Precipitation)		
	1998 (142%)	2000 (89%)	2001 (49%)
Water Entering the Region			
Precipitation	10,655	6,708	3,756
Inflow from Oregon/Mexico	0	0	0
Inflow from Colorado River	0	0	0
Imports from Other Regions	3	3	3
Total	**10,658**	**6,711**	**3,759**
Water Leaving the Region			
Consumptive Use of Applied Water * (Ag, M&I, Wetlands)	263	327	307
Outflow to Nevada	1,391	754	552
Exports to Other Regions	12	12	9
Statutory Required Outflow to Salt Sink	180	141	113
Additional Outflow to Salt Sink	83	92	92
Evaporation, Evapotranspiration of Native Vegetation, Groundwater Subsurface Outflows, Natural and Incidental Runoff, Ag Effective Precipitation & Other Outflows	8,572	5,493	3,223
Total	**10,501**	**6,819**	**4,296**
Storage Changes in the Region [+] Water added to storage [–] Water removed from storage			
Change in Surface Reservoir Storage	147	-66	-430
Change in Groundwater Storage **	10	-42	-107
Total	**157**	**-108**	**-537**

Applied Water * (compare with Consumptive Use)	432	524	490

* Definition - Consumptive use is the amount of applied water used and no longer available as a source of supply. Applied water is greater than consumptive use because it includes consumptive use, reuse, and outflows.

Water Entering the Region – Water Leaving the Region = Storage Changes in Region

<u>Footnote for change in Groundwater Storage</u>

Change in Groundwater Storage is based upon best available information. Basins in the north part of the State (North Coast, San Francisco, Sacramento River and North Lahontan Regions and parts of Central Coast and San Joaquin River Regions) have been modeled – spring 1997 to spring 1998 for the 1998 water year and spring 1999 to spring 2000 for the 2000 water year. All other regions and year 2001 were calculated using the following equation:

GW change in storage =
intentional recharge + deep percolation of applied water + conveyance deep percolation - withdrawals

This equation does not include the unknown factors such as natural recharge and subsurface inflow and outflow.